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NOTICE OF ALLOWANCE AND FEE(S) DUE

23696 7590 05/07/2009
QUALCOMM INCORPORATED
5775 MOREHOUSE DR.

SAN DIEGO, CA 92121

EXAMINER

DUONG, DUC T

ART UNIT PAPER NUMBER

2419

DATE MAILED: 05/07/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/970,586	10/04/2001	Peter J. Black	000157	1230

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/07/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

TITLE OF INVENTION: CAPACITY-EFFICIENT FLOW CONTROL MECHANISM

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further e indicated unless correcte maintenance fee notificat	form should be used : correspondence includi d below or directed of ions.	for tran	smitting the ISSU Patent, advance of in Block 1, by (a					nould be completed where correspondence address a rate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Nose; Use Block 1 for any change of address)				N Fo	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	OR .	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
09/970,586	10/04/2001			Peter J. Black			000157	1230
TITLE OF INVENTION:		NT FL	OW CONTROL N				000157	12.50
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Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.				or agents OR, alternatively, (2) the name of a single firm (having as a member a 2				
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			ation form e of a Customer	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is issed, no name will be printed.				
3. ASSIGNEE NAME AT								
PLEASE NOTE: Unle recordation as set forth	ess an assignee is ident in 37 CFR 3.11. Com	ified be	elow, no assignee of this form is NO	data will appear on the T a substitute for filing a	patent. If an assign	nee is i	dentified below, the de	ocument has been filed for
(A) NAME OF ASSIC				(B) RESIDENCE: (CI				
Please check the appropri	ate assignee category or	r catego	ries (will not be pr	inted on the patent):	☐ Individual ☐ C	orporat	ion or other private gro	up entity Government
4a. The following fee(s) a	re submitted:		41	o. Payment of Fee(s): (P	ease first reapply a	ny pre	viously paid issue fee :	shown above)
Issue Fee				A check is enclosed				
☐ Publication Fee (N ☐ Advance Order - #	o small entity discount	permitte	ed)	☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
Advance Order - 8	or copies			overpayment, to De	posit Account Numb	er	(enclose a	n extra copy of this form).
	SMALL ENTITY state	us. See	37 CFR 1.27.	☐ b. Applicant is no le				
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United St	uired) v ites Pat	will not be accepte ent and Trademark	d from anyone other that Office.	the applicant; a reg	istered	attorney or agent; or th	e assignee or other party ir
Authorized Signature					Date			
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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SAN DIEGO, CA	92121		2419		

DATE MAILED: 05/07/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 951 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 951 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability 2419 Duc T. Duona

Application No.

09/970,586	BLACK, PETER J.	
Examiner	Art Unit	

Applicant(s)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable. PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to RCE filed on 4/24/09.
- 2. X The allowed claim(s) is/are 1,2,5-8,11-19,and 21-71; now renumbered 1-4,10,11,14-16,12,5,6,7,13,17-21,8,9,and 22-66,respectively
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) \(\Pi \) Some* c) \(\Pi \) None of the:
 - 1. Certified copies of the priority documents have been received.
 - 2.

 Certified copies of the priority documents have been received in Application No. _____.
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date
 - (b) Including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

- 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paner No./Mail Date 4. T Examiner's Comment Recording Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
 - Interview Summary (PTO-413). Paper No./Mail Date
 - 7. ☐ Examiner's Amendment/Comment
 - 2. X Exeminer's Statement of Reasons for Allowance.
 - 9. ☐ Other .

Application/Control Number: 09/970,586

Art Unit: 2419

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 24, 2009 has been entered.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on April 24, 2009 was filed after the mailing date of the Notice of Allowance on January 1, 2009. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

Claims 1, 2, 5-8, 11-19, and 21-71 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to teach or make obvious the steps of or means for "comparing the detected average throughput against a threshold throughput, wherein the threshold throughput is based on a maximum supported average data rate", when such comparing is considered within the specific structure of the method recited in claims 1 and 40 or the device recited in claims 27, 28, 34, 45, 50, and 55. The prior art of record fails to teach or make obvious the steps of or means for

Application/Control Number: 09/970,586

Art Unit: 2419

"averaging a value indicative of a throughput for the current transmission with values indicative of throughputs for one or more prior transmissions in one or more prior transmissions intervals, wherein the averaging is achieved with a sliding window averaging", when such averaging is considered within the specific structure of the method recited in claim 7 or the device recited in claims 23, 56, 60, and 68. The prior art of record fails to teach or make obvious the steps of or means for "the message is covered by a null cover that indicates that data transmission is not requested by the receiving device", when such message is considered within the specific structure of the method recited in claim 11 or the device recited in claims 24. 61, 64, and 65. The prior art of record fails to teach or make obvious the steps of or means for "a controller coupled to the detector and operative to receive the status signal and generate a message requesting the transmission to stop the data transmission if the detected average throughput exceeds the threshold throughput", when such controller is considered within the specific structure of the device recited in claim 19

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc T. Duong whose telephone number is (571)272-3122. The examiner can normally be reached on M-F (8:00 AM-5:00 PM). Application/Control Number: 09/970,586 Art Unit: 2419

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on 571-272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. T. D./ Examiner, Art Unit 2419

/Wing F. Chan/ Supervisory Patent Examiner, Art Unit 2419 5/4/09